



MECHANICAL SYSTEMS DATA SHEET: VESSEL

R10379538

PLANT ITEM No.
24590-PTF-MV-PJV-VSL-00002

ISSUED BY

Project:	RPP-WTP	P&ID:	24590-PTF-M6-PJV-P0002	RPP-WTP PDC
Project No.:	24590	Process Calculation:	Deleted	
Project Site:	Hanford	Vessel Drawing	24590-PTF-MV-PJV-P0001	
Description:	PJV Drain Collection Vessel			

Reference Data

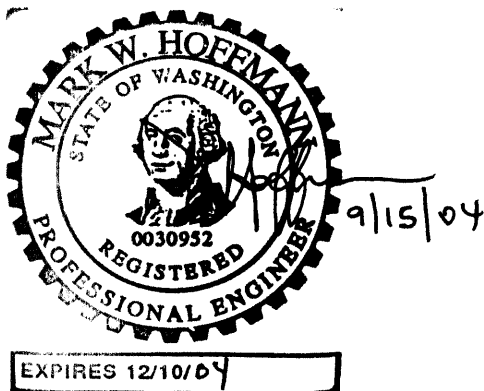
Charge Vessels (Plant Item Numbers)	None
Pulsejet Mixers / Agitators (Plant Item Numbers)	None
RFD(s)/Pump(s) (Plant Item Numbers)	None

Design Data

Quality Level	QL-2	Fabrication Specs	24590-WTP-3PS-MV00-TP001		
Seismic Category	SC-II	Design Code	ASME Sec VIII, Div-1		
Service/Contents	Process Radioactive Cond.	Code Stamp	YES		
Design Specific Gravity	1.00	NB Registration	YES		
Operating Volume	gal	Weights (lbs)	Empty	Operating	Test
Total Volume	gal	Estimated	21476	85775	96748
		Actual *			

Inside Diameter	inch	120	Wind Design	NIA	
Length/Height (TL-TL)	inch	144	Snow Design	NIA	
		Vessel Operating	Vessel Design	Coil/Jacket Design	Seismic Design
					24590-WTP-3PS-MV00-TP002 24590-WTP-3PS-SS90-T0001
Internal Pressure	psig	0	15		Seismic Base Moment *
External Pressure	psig	0.22	FV		ft*lb
Temperature	°F	113	200		Postweld Heat Treat
					No
Min. Design Metal Temp	°F	-20		Corrosion Allowance	Inch
					0.04
				Hydrostatic Test Pressure *	Psig

Please note that source, special nuclear and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA), are regulated at the U.S. Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority. DOE asserts, that pursuant to the AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on radionuclides is provided for process description purposes only.



This bound document contains a total of 2 sheets

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Materials of Construction

Component	Material	Minimum Thickness / Size	Containment
Top Head	SA-240-304 (See Note-3)	See Drawing	Auxiliary (See note 5)
Shell	SA-240-304 (See Note-3)	See Drawing	Primary (See note 5)
Bottom Head	SA-240-304 (See Note-3)	See Drawing	Primary (See note 5)
Support	SA-240-304 (See Note-3)	*	N/A
Jacket/Coils/Half-Pipe Jacket	N/A	N/A	N/A
Internals	SA-240-304 (See Note-3)	See Drawing	N/A
Pipe Nozzles	SA-312-304 (See Note-3)	See Drawing	Primary (See note 5)
Forgings/ Bar stock	SA-182-304 (See Note-3)	See Drawing	
Bolting	N/A	N/A	N/A

Miscellaneous Data

Orientation	Vertical	Support Type	Skirt
Insulation Function	NA	Insulation Material	NA
Insulation Thickness (inch)	NA	Internal Finish	Welds descaled as laid
		External Finish	Welds descaled as laid

Remarks

* To be determined by the vendor.

Note 1: Deleted

Note 2: Design life is 40 years

Note 3: Material shall have carbon content of 0.030% Max. Dual certified.

Note 4: This Vessel is in a Black Cell

Note 5: All Welds forming part of the Primary and auxiliary containment including Nozzle attachment welds shall be subjected to 100% Volumetric Examination